

Consumer Price Inflation

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This note is produced as background briefing for the Consumer Price Inflation Statistical Bulletin. Users who require authoritative figures should use the Consumer Price Inflation Statistical Bulletin or Consumer Price Inflation Dataset.

SUMMARY

Consumer Prices Index (CPI)

The CPI is a measure of consumer price inflation produced to international standards and in line with European regulations. First published in 1997 as the Harmonised Index of Consumer Prices (HICP), the CPI is the inflation measure used in the Government's target for inflation.

The CPI is also used for purposes such as uprating pensions, wages and benefits and can aid in the understanding of inflation on family budgets. For more information see [Users and uses of consumer price inflation statistics \(2013\)](#).

The main movements for CPI in October 2016 are:

- The all items CPI is 101.2, up from 101.1 in September.
- The all items CPI annual rate is 0.9%, down from 1.0% in September.
- The annual rate for CPI excluding indirect taxes, CPIY, is 0.8%, unchanged from last month.
- The annual rate for CPI at constant tax rates, CPI-CT, is 0.8%, down from 0.9% last month.
- The CPI all goods index is 99.5, up from 99.2 in September.
- The CPI all goods index annual rate is -0.4%, up from -0.5% last month.
- The CPI all services index is 103.1, down from 103.3 in September.
- The CPI all services index annual rate is 2.4%, down from 2.6% last month.

CPIH

CPIH has been re-assessed to evaluate the extent to which it meets the professional standards set out in the Code of Practice for Official Statistics and the [assessment report](#) published on 3 March 2016. The report includes a number of requirements that need to be implemented for CPIH to regain its status as a National Statistic. The actions taken to address these requirements were reported to the UK Statistics Authority at the end of September 2016.

CPIH is a measure of UK consumer price inflation that includes owner occupiers' housing costs (OOH). These are the costs of housing services associated with owning, maintaining and living in one's own home. OOH does not include costs such as utility bills, minor repairs and maintenance, which are already included in the index.

CPIH uses an approach called rental equivalence to measure OOH. Rental equivalence uses the rent paid for an equivalent house as a proxy for the costs faced by an owner occupier. In other words, this answers the question "how much would I have to pay in rent to live in a home like mine?" for an owner occupier. OOH does not seek to capture increases in house prices. Although this may be inconsistent with some users' expectations of measures of OOH, the inclusion of an

asset price and therefore capital gains would make the index less suitable as a measure of consumption. OOH currently accounts for 16.5% of the expenditure weight of CPIH. This compares with a weight of 19.5% in 2005.

Currently, the method of calculation, the population coverage, the basket of goods and services and the method of deriving the weights are the same as for the Consumer Prices Index (CPI), with the exception of OOH. A full description of how CPIH is compiled is given in the [Consumer Price Indices Technical Manual](#) and in various papers published on the [prices guidance and methodology webpage](#).

The main movements for CPIH in October 2016 are:

- The all items CPIH is 101.5, up from 101.4 in September.
- The all items CPIH annual rate is 1.2%, unchanged from last month.
- The annual rate for CPIH excluding indirect taxes, CPIHY, is 1.2%, unchanged from last month.
- The OOH component of CPIH is 103.2, up from 102.8 in September.
- The OOH component annual rate is 2.7%, up from 2.4% last month.
- The CPIH all goods index is 99.5, up from 99.3 in September.
- The CPIH all goods index annual rate is -0.4%, up from -0.5% last month.
- The CPIH all services index is 103.1, unchanged from last month.
- The CPIH all services index annual rate is 2.4%, down from 2.6% last month.

Retail Prices Index (RPI) and RPIJ

In accordance with the Statistics and Registration Service Act 2007, the Retail Prices Index and its derivatives have been assessed against the Code of Practice for Official Statistics and found not to meet the required standard for designation as National Statistics. The [full assessment report](#) can be found on the UK Statistics Authority website.

The RPI is a long-standing measure of UK inflation that has historically been used for a wide range of purposes such as the indexation of pensions, rents and index-linked gilts. For further information see [Users and uses of consumer price inflation statistics \(2013\)](#).

RPIJ is an improved variant of the Retail Prices Index which is calculated using formulae that meet international standards. The rationale for creating RPIJ was to give users a better alternative to the RPI if their needs were for a measure of inflation based on the same population, classifications, weights, etc. as the RPI. Currently, RPIJ also acts as an analytical series in that it allows users to see the impact of using the Jevons (which meets international standards) in place of the Carli

formula (which does not meet international standards) in the RPI. The use of the different formulae at the elementary aggregate level is currently the only difference between these indices. Detailed goods and services indices are not produced for RPIJ.

The main movements for RPI and RPIJ in October 2016 are:

- The all items RPI is 264.8, down from 264.9 in September.
- The all items RPI annual rate is 2.0%, unchanged from last month.
- The all items RPIJ is 242.1, down from 242.3 in September.
- The all items RPIJ annual rate is 1.3%, unchanged from last month.
- The annual rate for RPIX, the all items RPI excluding mortgage interest payments (MIPs) index, is 2.2%, unchanged from last month.
- The all goods RPI is 199.8, up from 199.5 in September.
- The all goods RPI annual rate is 0.9%, up from 0.6% last month.
- The all services RPI is 362.4, down from 362.7 in September.
- The all services RPI annual rate is 2.6%, unchanged from last month.
- The annual rate for RPIY, the all items RPI excluding MIPs and indirect taxes index, is 2.1%, unchanged from last month.
- The Tax and Price Index (TPI) for October is 232.0, down from 232.1 in September.
- The TPI annual rate is 2.4%, unchanged from last month.

CPI SUMMARY

CONTRIBUTIONS TO CHANGE IN THE CPI ANNUAL RATE

CPI COICOP DIVISIONS	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
01: Food and non-alcoholic beverages	110	103	-0.4	-0.5	-0.01
02: Alcoholic beverages and tobacco	43	42	-0.4	-0.1	0.02
03: Clothing and footwear	70	71	2.0	0.3	-0.12
04: Housing, water, electricity, gas and other fuels	128	120	0.1	0.2	-
05: Furniture, household equipment and maintenance	59	59	-1.0	0.5	0.09
06: Health	25	28	-0.7	-1.0	-0.01
07: Transport	149	153	-1.0	-	0.15
08: Communication	31	32	0.6	0.1	-0.02
09: Recreation and culture	147	148	0.8	0.2	-0.09
10: Education	26	25	3.6	2.0	-0.04
11: Restaurants and hotels	121	123	0.1	-0.1	-0.04
12: Miscellaneous goods and services	91	96	0.1	-	-0.01

Large upward effects came from:

- Transport**, where the upward contribution to the change in the rate came largely from motor fuels, with prices rising by 2.3% between September and October 2016. Fuel prices tend to reflect movements in oil prices and part of the increase in oil prices in 2016 can be explained by depreciation of sterling against the US dollar. The impact of fuel prices on the change in the 12-month rate is also influenced by what happened in the same period last year, when prices fell by 0.9%; and
- Furniture, household equipment and maintenance**, where prices, overall, increased by 0.5% between September and October 2016, compared with a fall of 1.0% a year ago. This is the first October increase since the series began in 1997, although it follows a period of

unusually low prices between June and September, when a relatively high proportion of items were on sale compared with recent years. Within this group, the main contribution to the change in the rate came from prices for furniture and furnishings, which fell by less than they did a year ago.

Large downward effects came from:

- **Clothing and footwear**, where the downward effect came mainly from garments (in particular women's outerwear), for which prices rose by 0.2% between September and October 2016, compared with a larger rise of 2.3% a year earlier. It is important to note that this followed a relatively large increase in prices in September 2016, which resulted in an upward contribution to the change in the rate of a similar magnitude to the downward effect seen in October;
- **Recreation and culture**, where prices overall increased by 0.2% between September and October 2016, compared with a larger increase of 0.8% a year ago. Certain games and toys were the main contributors to the decrease in the rate;
- **Education**, where charges overall rose by 2.0% between September and October this year compared with a larger rise of 3.6% between the same 2 months a year ago. The downward contribution came principally from UK and EU student tuition fees, where the impact from the rise in the cap for tuition fees (first introduced for new students in England in 2012) was smaller this year than in 2015. This was because nearly all students are already paying the higher rate of fees whereas last year the fees for fourth year courses rose to the higher rates. In addition there were more modest price increases for part-time and postgraduate fees compared with last year; and
- **Restaurants and hotels**, where overall prices fell by 0.1% between September and October 2016, having risen by 0.1% a year earlier. The downward effect was due to prices for an overnight hotel stay falling by more than they did a year ago. Prices for overnight hotel stays have been volatile in recent months.

A small downward effect came from:

- **Food and non-alcoholic beverages**, where overall this group made a small downward contribution to the rate. A more pronounced effect was seen for non-alcoholic beverages, with prices falling by 3.2% between September and October 2016, having been unchanged between the same 2 months a year ago. This fall followed an unusually large increase in prices in September 2016. This downward effect was partially offset by prices for food, which fell by less than they did a year ago.

CPI NOTABLE MOVEMENTS

All items CPI	Annual rate +0.9%, down from +1.0% last month Lowest since August 2016 (+0.6%)
All items CPI exc energy, food, alcohol and tobacco	Annual rate +1.2%, down from +1.5% last month Also +1.2% in May 2016, April 2016, February 2016, January 2016 and November 2015 Last lower in October 2015 (+1.1%)
Alcoholic beverages and tobacco	Annual rate +2.1%, up from +1.7% last month Also +2.1% in August 2015 Last higher in June 2015 (+2.3%)
Transport	Annual rate +2.3%, up from +1.2% last month Highest since November 2012 (+2.6%)
Education	Annual rate +4.3%, down from +5.9% last month Lowest since September 2012 (+3.2%)
All goods	Annual rate -0.4%, up from -0.5% last month Highest since November 2014 (-0.2%)
All services	Annual rate +2.4%, down from +2.6% last month Also +2.4% in April 2016 and February 2016 Last lower in January 2016 (+2.3%)
Fuels and lubricants	Annual rate +4.7%, up from +1.4% last month Highest since April 2012 (+5.3%)
Electricity, gas and other fuels	Annual rate -1.5%, up from -2.0% last month Highest since November 2014 (+4.5%)

CPI DETAILED BRIEFING

- Weights are specified as parts per 1000 in the CPI.

01 FOOD AND NON-ALCOHOLIC BEVERAGES	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
01 Food & non-alcoholic beverages	110	103	-0.4	-0.5	-0.01

- Small downward effect on the all items 12-month rate change.
- Due to **non-alcoholic beverages**.
- Partially offset by **food**.

01.1 Food	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
01.1 Food	97	91	-0.5	-0.2	0.03
01.1.1 Bread and cereals	16	15	0.3	-0.3	-0.01
01.1.2 Meat	22	21	-1.8	-0.5	0.03
01.1.3 Fish	4	4	-1.0	2.9	0.02
01.1.4 Milk, cheese and eggs	14	12	-0.1	-0.1	-
01.1.5 Oils and fats	2	2	-5.0	-1.0	0.01
01.1.6 Fruit	10	9	2.7	1.2	-0.02
01.1.7 Vegetables including potatoes	14	13	-1.0	-1.9	-0.01
01.1.8 Sugar, jam, syrups, chocolate and confectionery	12	12	0.2	1.1	0.01
01.1.9 Food products not elsewhere covered	3	3	-2.9	-2.0	-

- Small upward effect on the all items 12-month rate change.
- Due to **meat; fish; oils and fats; and sugar, jam, syrups, chocolate and confectionery**.
- Partially offset by **fruit; bread and cereals and vegetables including potatoes**.

Bread and cereals

- Small downward effect.
- Prices overall fell this year but rose a year ago.

Meat

- Small upward effect.
- Prices overall fell this year by less than a year ago, particularly for pork sausages. Partially offset by a small downward contribution coming from cooked ham, where prices fell this year

but rose a year ago.

Fish

- Small upward effect.
- Prices overall rose this year but fell a year ago, particularly for white fish fillets.

Oils and fats

- Small upward effect.
- Prices overall fell this year by less than a year ago, with the main upward contribution coming from spreadable butter.

Fruit

- Small downward effect.
- Prices overall rose this year by less than a year ago, particularly for blueberries.

Vegetables including potatoes

- Small downward effect.
- Prices overall fell this year by more than a year ago, particularly for premium potato crisps.

Sugar, jam, syrups, chocolate and confectionery

- Small upward effect.
- Prices overall rose this year by more than a year ago, with the main upward contribution coming from bags of chocolate sweets.
- Partially offset by a small downward contribution coming from bags of non-chocolate sweets, where prices overall rose this year by less than a year ago.

01.2 Non-alcoholic beverages	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
01.2 Non-alcoholic beverages	13	12	-	-3.2	-0.04
01.2.1 Coffee, tea and cocoa	3	3	-0.4	-1.8	-
01.2.2 Mineral waters, soft drinks and juices	10	9	0.2	-3.7	-0.04

- Large downward effect on the all items 12-month rate change.
- Due to **mineral waters, soft drinks and juices**, where prices overall fell this year but rose a year ago, with the main downward contributions coming from fruit squash and bottles of cola flavoured drinks.

02 ALCOHOLIC BEVERAGES AND TOBACCO	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
02 Alcoholic beverages and tobacco	43	42	-0.4	-0.1	0.02

- Small upward effect on the all items 12-month rate change.
- Due to **alcoholic beverages**.
- Partially offset by **tobacco**.

02.1 Alcoholic Beverages	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
02.1 Alcoholic beverages	19	19	-2.2	-0.4	0.03
02.1.1 Spirits	5	5	-1.3	-0.3	0.01
02.1.2 Wine	9	9	-3.3	-1.1	0.02
02.1.3 Beer	5	5	-1.2	0.6	0.01

- Small upward effect on the all items 12-month rate change.
- Due to **wine, beer and spirits**.

Spirits

- Small upward effect.
- Prices overall fell this year by less than a year ago, particularly for vodka.

Wine

- Small upward effect.
- Prices overall fell this year by less than a year ago, particularly for New World white wine.

Beer

- Small upward effect.
- Prices overall rose this year but fell a year ago, particularly for larger packs of bottled lager.

02.2 Tobacco	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
02.2 Tobacco	24	23	0.9	0.2	-0.02

- Small downward effect on the all items 12-month rate change.
- Prices overall rose this year by less than a year ago, particularly for some brands of

cigarettes.

03 CLOTHING AND FOOTWEAR	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
03 Clothing and footwear	70	71	2.0	0.3	-0.12

- Largest downward effect on the all items 12-month rate change.
- Due to **clothing**.

03.1 Clothing	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
03.1 Clothing	60	61	2.3	0.2	-0.12
03.1.2 Garments	54	54	2.3	0.2	-0.11
03.1.3 Other clothing and clothing accessories	5	6	2.5	0.2	-0.01
03.1.4 Cleaning, repair and hire of clothing	1	1	0.2	0.2	-

- Large downward effect on the all items 12-month rate change.
- Due to **garments** and, to a lesser extent, **other clothing and clothing accessories**.

Garments

- Large downward effect.
- Prices overall rose this year by less than a year ago, with the main downward contributions coming from women's skirts, formal trousers, swimwear, strappy tops, dresses and casual jackets; men's casual jackets/coats and ready-made suits; and children's trousers and jumper/sweatshirt/cardigans.
- Partially offset by small upward contributions coming from girl's fashion tops and women's casual trousers.

Other clothing and clothing accessories

- Small downward effect.
- Prices overall rose this year by less than a year ago, with the main downward contributions coming from ladies scarves and men's ties.

03.2 Footwear including repairs	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
03.2 Footwear including repairs	10	10	0.3	0.4	-

- Negligible overall effect on the all items 12-month rate change.

04 HOUSING, WATER, ELECTRICITY, GAS AND OTHER FUELS	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
04 Housing, water, electricity, gas and other fuels	128	120	0.1	0.2	-

- Negligible overall effect on the all items 12-month rate change.
- There is a small upward contribution coming from **electricity, gas and other fuels** offset by a small downward contribution coming from **actual rentals for housing**.

04.1 Actual rentals for housing	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
04.1 Actual rentals for housing	72	72	0.2	0.1	-0.01

- Small downward effect on the all items 12-month rate change.
- Charges overall rose this year by less than a year ago, with the main downward contribution coming from Registered Social Landlord (RSL) rents.

04.3 Regular maintenance and repair of the dwelling	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
04.3 Regular maintenance and repair of the dwelling	2	2	-0.2	-0.6	-
04.3.1 Materials for maintenance and repair	1	1	-0.7	-1.5	-
04.3.2 Services for maintenance and repair	1	1	0.2	0.2	-

- Negligible overall effect on the all items 12-month rate change.

04.4 Other services related to the dwelling	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
04.4 Other services related to the dwelling	12	11	-	-	-
04.4.1 Water supply	6	6	-	-	-
04.4.3 Sewerage collection	6	5	-	-	-

- Negligible overall effect on the all items 12-month rate change.

04.5 Electricity, gas and other fuels	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
04.5 Electricity, gas and other fuels	42	35	-	0.6	0.02
04.5.1 Electricity	20	17	-	-	-
04.5.2 Gas	20	16	-	-	-
04.5.3 Liquid fuels	1	1	0.1	14.1	0.02
04.5.4 Solid fuels	1	1	1.3	1.8	-

- Small upward effect on the all items 12-month rate change.
- Due to **kerosene**, where average charges rose this year by more than a year ago.

05 FURNITURE, HOUSEHOLD EQUIPMENT AND MAINTENANCE	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
05 Furniture, household equipment and maintenance	59	59	-1.0	0.5	0.09

- Large upward effect on the all items 12-month rate change.
- Due to **furniture, furnishings and carpets**; and to a lesser extent, **goods and services for routine maintenance; household textiles**; and **household appliances, fitting and repairs**.
- Partially offset by **tools and equipment for house and garden**.

05.1 Furniture, furnishings and carpets	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
05.1 Furniture, furnishings and carpets	21	20	-2.8	-0.8	0.05
05.1.1 Furniture and furnishings	15	16	-4.0	-1.1	0.05
05.1.2 Carpets and other floor coverings	6	4	0.3	0.7	-

- Large upward effect on the all items 12-month rate change.
- Due to **furniture and furnishings**, where prices overall fell this year by less than a year ago, with the main upward contributions coming from leather settees and wardrobes.

05.2 Household textiles	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
05.2 Household textiles	6	7	-1.2	1.4	0.02

- Small upward effect on the all items 12-month rate change.
- Prices overall rose this year but fell a year ago, particularly for ready-made curtains.

05.3 Household appliances, fitting and repairs	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
05.3 Household appliances, fitting and repairs	8	8	1.2	2.6	0.01
05.3.1/2 Major appliances and small electric goods	7	7	1.9	3.0	0.01
05.3.3 Repair of household appliances	1	1	-3.4	0.1	-

- Small upward effect on the all items 12-month rate change.
- Due to **major appliances and small electric goods**, where prices overall rose this year by more than a year ago.

05.4 Glassware, tableware and household utensils	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
05.4 Glassware, tableware and household utensils	6	6	0.9	0.3	-

- Negligible overall effect on the all items 12-month rate change.

05.5 Tools and equipment for house and garden	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
05.5 Tools and equipment for house and garden	5	5	0.2	-1.0	-0.01

- Small downward effect on the all items 12-month rate change.
- Prices overall fell this year but rose a year ago, particularly for door handles.

05.6 Goods and services for routine maintenance	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
05.6 Goods and services for routine maintenance	13	13	-0.3	1.4	0.02
05.6.1 Non-durable household goods	5	5	-1.0	3.5	0.02
05.6.2 Domestic services and household services	8	8	0.1	0.1	-

- Small upward effect on the all items 12-month rate change.
- Due to **non-durable household goods**, where prices overall rose this year but fell a year ago, with the main upward contribution coming from cream/liquid household cleaners.

06 HEALTH	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
06 Health	25	28	-0.7	-1.0	-0.01

- Small downward effect on the all items 12-month rate change.
- Due to **medical products, appliances and equipment**.

06.1 Medical products, appliances and equipment	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
06.1 Medical products, appliances and equipment	12	13	-	-0.6	-0.01
06.1.1 Pharmaceutical products	7	8	-0.4	-0.9	-0.01
06.1.2/3 Other medical and therapeutic equipment	5	5	0.6	-	-

- Small downward effect on the all items 12-month rate change.

- Due to **pharmaceutical products**, where prices overall fell this year by more than a year ago.

06.2 Out-patient services	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
06.2 Out-patient services	5	7	-0.1	-	-
06.2.1/3 Medical and paramedical services	3	4	-0.1	-	-
06.2.2 Dental services	2	3	-	0.1	-

- Negligible overall effect on the all items 12-month rate change.

06.3 Hospital services	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
06.3 Hospital Services	8	8	-2.1	-2.4	-

- Negligible overall effect on the all items 12-month rate change.

07 TRANSPORT	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
07 Transport	149	153	-1.0	-	0.15

- Largest upward effect on the all items 12-month rate change.
- Due to **operation of personal transport equipment; transport services**; and, to a lesser extent, **purchase of vehicles**.

07.1 Purchase of vehicles	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
07.1 Purchase of vehicles	40	43	-0.1	0.1	0.01
07.1.1A New cars	24	25	-	0.4	0.01
07.1.1B Second-hand cars	14	16	-0.2	-0.2	-
07.1.2/3 Motorcycles and bicycles	2	2	-1.5	-1.1	-

- Small upward effect on the all items 12-month rate change.
- Due to **new cars**, where prices overall rose this year but were little changed a year ago.

07.2 Operation of personal transport equipment	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
07.2 Operation of personal transport equipment	77	73	-0.3	1.1	0.11
07.2.1 Spare parts and accessories	6	5	-	0.4	-
07.2.2 Fuels and lubricants	34	32	-0.9	2.3	0.11
07.2.3 Maintenance and repairs	23	22	-	0.1	-
07.2.4 Other services	14	14	0.5	-0.1	-0.01

- Large upward effect on the all items 12-month rate change.
- Due to **fuels and lubricants**.
- Partially offset by **other services**.

Fuels and lubricants

- Large upward effect.
- The average price of petrol across the month, as recorded for the CPI, rose by 2.6 pence per litre between September and October 2016 to stand at 113.8 pence per litre. Last year, the average price of petrol fell by 1.7 pence per litre between September and October 2015 to stand at 108.7 pence per litre. The average price of diesel rose by 2.7 pence per litre between September and October 2016 to stand at 116.0 pence per litre, compared with a rise of 0.6 pence per litre a year earlier to stand at 110.8 pence per litre.

Other services

- Small downward effect.
- Prices overall fell this year but rose a year ago, particularly for self drive van hire.

07.3 Transport services	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
07.3 Transport services	32	37	-3.7	-2.2	0.04
07.3.1 Passenger transport by railway	12	13	-0.3	-0.6	-
07.3.2 Passenger transport by road	12	12	-0.6	0.5	0.01
07.3.3 Passenger transport by air	6	8	-12.7	-7.4	0.03
07.3.4 Passenger transport by sea and inland waterway	2	4	-5.6	-2.6	-

- Large upward effect on the all items 12-month rate change.
- Due to **passenger transport by air**; and **passenger transport by road**.

Passenger transport by road

- Small upward effect.
- Average charges rose this year but fell a year ago, particularly for coach fares.

Passenger transport by air

- Small upward effect.
- Average air fares fell this year by less than a year ago, particularly for European and domestic flights.
- Partially offset by a downward contribution coming from long-haul flights, where average fares fell this year by more than a year ago.

08 COMMUNICATION	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
08 Communication	31	32	0.6	0.1	-0.02

- Small downward effect on the all items 12-month rate change.
- Due to **telephone equipment and services**.

08.1 Postal services	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
08.1 Postal services	2	2	-	-	-

- Negligible overall effect on the all items 12-month rate change.

08.2/3 Telephone equipment and services	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
08.2/3 Telephone equipment and services	29	30	0.7	0.1	-0.02

- Small downward effect on the all items 12-month rate change.
- Prices overall rose this year by less than a year ago, with the main downward contributions coming from telephone charges and bundled telecommunication services.
- Partially offset by a small upward contribution coming from mobile telephone applications, where charges rose this year but fell a year ago.

09 RECREATION AND CULTURE	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
09 Recreation and culture	147	148	0.8	0.2	-0.09

- Large downward effect on the all items 12-month rate change.
- Due to **other recreational items, gardens and pets**; and, to a lesser extent, **package holidays**; and **audio-visual equipment and related products**.
- Partially offset by **other major durables for recreation and culture**; and **books, newspapers and stationery**.

09.1 Audio-visual equipment and related products	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
09.1 Audio-visual equipment and related products	23	18	0.5	-0.1	-0.01
09.1.1 Equipment for the reception and reproduction of sound and pictures	5	5	0.4	0.9	-
09.1.2 Photographic, cinematographic and optical equipment	3	2	-0.5	2.0	0.01
09.1.3 Data processing equipment	9	7	0.3	-	-
09.1.4 Recording media	5	3	1.7	-3.4	-0.02
09.1.5 Repair of audio-visual equipment and related products	1	1	-	-	-

- Small downward effect on the all items 12-month rate change.
- Due to **recording media**.
- Partially offset by **photographic, cinematographic and optical equipment**.

Photographic, cinematographic and optical equipment

- Small upward effect.
- Prices overall rose this year but fell a year ago.

Recording media

- Small downward effect.
- Prices overall fell this year but rose a year ago, particularly for DVDs and blu-ray discs purchased via the internet.

09.2 Other major durables for recreation and culture	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
09.2.1/2 Major durables for in/outdoor recreation	10	12	-	0.9	0.01

- Small upward effect on the all items 12-month rate change.
- Prices overall rose this year by more than a year ago, with the main upward contribution coming from watersport equipment.

09.3 Other recreational items, gardens and pets	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
09.3 Other recreational items, gardens and pets	36	35	2.0	0.3	-0.06
09.3.1 Games, toys and hobbies	21	20	3.4	0.1	-0.07
09.3.2 Equipment for sport and open-air recreation	4	3	0.4	0.2	-
09.3.3 Gardens, plants and flowers	4	4	-1.5	0.5	0.01
09.3.4/5 Pets, related products and services	7	8	0.9	0.6	-

- Large downward effect on the all items 12-month rate change.
- Due to **games, toys and hobbies**.
- Partially offset by **gardens, plants and flowers**.

Games, toys and hobbies

- Large downward effect.
- Prices overall rose this year by less than a year ago, with the main downward contributions coming from computer games purchased via the internet, computer games consoles, construction toys and board games.
- Partially offset by a small upward contribution coming from shop bought computer games, where prices rose this year by more than a year ago.

Gardens plants and flowers

- Small upward effect.
- Prices overall rose this year but fell a year ago, particularly for potted shrubs.

09.4 Recreational and cultural services	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
09.4 Recreational and cultural services	31	33	0.3	0.2	-
09.4.1 Recreational and sporting services	8	10	-0.2	0.1	-
09.4.2 Cultural services	23	23	0.5	0.2	-0.01

- Negligible overall effect on the all items 12-month rate change.
- There is a small downward contribution coming from cultural services, where prices overall rose this year by less than a year ago, with the main downward contribution coming from admission to cultural events. Partially offset by a small upward contribution coming from theatre admission.

09.5 Books, newspapers and stationery	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
09.5 Books, newspapers and stationery	14	14	1.5	1.9	0.01
09.5.1 Books	4	4	2.7	3.7	-
09.5.2 Newspapers and periodicals	5	5	0.1	0.8	-
09.5.3/4 Misc. printed matter, stationery, drawing materials	5	5	2.0	1.7	-

- Small upward effect on the all items 12-month rate change.
- Prices overall rose this year by more than a year ago.

09.6 Package holidays	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
09.6 Package holidays	33	36	0.2	-0.4	-0.02

- Small downward effect on the all items 12-month rate change.
- Prices overall fell this year but rose a year ago, with the main downward contributions coming from self catering, late booked and hotel foreign holidays.

10 EDUCATION	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
10 Education	26	25	3.6	2.0	-0.04

- Large downward effect on the all items 12-month rate change.
- Charges overall rose this year by less than a year ago, particularly for university tuition fees. The downward contribution came principally from UK and EU student tuition fees, where the impact from the rise in the cap for tuition fees (first introduced for new students in England in 2012) was smaller this year than in 2015. This was because nearly all students are already paying the higher rate of fees whereas last year the fees for fourth year courses rose to the higher rates. In addition, there were more modest price increases for part-time and postgraduate fees compared with last year.

11 RESTAURANTS AND HOTELS	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
11 Restaurants and hotels	121	123	0.1	-0.1	-0.04

- Large downward effect on the all items 12-month rate change.
- Due to **accommodation services**.
- Partially offset by **catering services**.

11.1 Catering services	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
11.1 Catering services	100	101	0.1	0.2	0.01
11.1.1 Restaurants and cafes	91	93	0.1	0.2	0.01
11.1.2 Canteens	9	8	0.2	-	-

- Small upward effect on the all items 12-month rate change.
- Due to **restaurants and cafes**, where prices overall rose this year by more than a year ago.

11.2 Accommodation services	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
11.2 Accommodation services	21	22	0.2	-1.6	-0.04

- Large downward effect on the all items 12-month rate change.
- Prices overall fell this year but rose a year ago, with the main downward contribution coming from overnight hotel accommodation.

12 MISCELLANEOUS GOODS AND SERVICES	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
12 Misc. goods and services	91	96	0.1	-	-0.01

- Small downward effect on the all items 12-month rate change.
- Due to **other services not elsewhere covered** and **insurance**.
- Partially offset by **personal care** and **financial services not elsewhere covered**.

12.1 Personal care	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
12.1 Personal care	30	31	0.3	0.6	0.01
12.1.1 Hairdressing and personal grooming establishments	7	8	-0.2	-0.2	-
12.1.2/3 Appliances and products for personal care	23	23	0.4	0.9	0.01

- Small upward effect on the all items 12-month rate change.
- Due to **appliances and products for personal care**, where prices overall rose this year by more than a year ago, with the main upward contributions coming from baby wipes, sunscreen, toothbrushes and toothpaste.
- Partially offset by small downward contributions coming from toilet rolls and electric razors, where prices overall fell this year but rose a year ago.

12.3 Personal effects not elsewhere covered	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
12.3 Personal effects not elsewhere covered	14	16	-1.0	-1.1	-
12.3.1 Jewellery, clocks and watches	9	9	-0.2	-0.4	-
12.3.2 Other personal effects	5	7	-2.3	-1.9	-

- Negligible overall effect on the all items 12-month rate change.

12.4 Social protection	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
12.4 Social protection	13	16	0.2	0.3	-

- Negligible overall effect on the all items 12-month rate change.

12.5 Insurance	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
12.5 Insurance	10	9	-0.1	-0.9	-0.01
12.5.2 House contents insurance	2	2	-0.7	-0.7	-
12.5.3 Health insurance	3	3	-2.1	-2.2	-
12.5.4 Transport insurance	5	4	1.3	-	-0.01

- Small downward effect on the all items 12-month rate change.
- Due to **transport insurance**, where average premiums for car insurance were little changed this year but rose a year ago.

12.6 Financial services not elsewhere covered	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
12.6 Financial services not elsewhere covered	12	12	-0.1	0.3	0.01

- Small upward effect on the all items 12-month rate change.
- Charges overall rose this year but fell a year ago.

12.7 Other services not elsewhere covered	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to CPI annual rate change
12.7 Other services not elsewhere covered	12	12	1.3	-0.2	-0.02

- Small downward effect on the all items 12-month rate change.
- Charges overall fell this year but rose a year ago, with the main downward contribution coming from dating agency fees.

RPI SUMMARY

CONTRIBUTIONS TO CHANGE IN THE RPI ANNUAL RATE

GROUPS	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to RPI annual rate change
FOOD	109	102	-0.5	-0.3	0.02
CATERING	47	47	0.2	0.2	-
ALCOHOLIC DRINKS	56	57	-0.7	-	0.04
TOBACCO	27	25	0.9	0.2	-0.02
HOUSING	263	266	0.3	-0.2	-0.13
FUEL AND LIGHT	45	41	-	0.8	0.03
HOUSEHOLD GOODS	59	62	-1.3	0.2	0.09
HOUSEHOLD SERVICES	65	67	0.7	0.4	-0.02
CLOTHING AND FOOTWEAR	42	41	1.9	0.3	-0.07
PERSONAL GOODS AND SERVICES	41	42	-0.5	-0.3	0.01
MOTORING EXPENDITURE	115	117	-	0.4	0.05
FARES AND OTHER TRAVEL COSTS	25	26	-4.7	-3.1	0.04
LEISURE GOODS	28	29	1.0	0.5	-0.02
LEISURE SERVICES	78	78	0.2	-0.1	-0.02

RPI NOTABLE MOVEMENTS

All items RPI	Annual rate +2.0%, unchanged from last month Also +2.0% in November 2014 Last higher in October 2014 (+2.3%) Last lower in August 2016 (+1.8%)
All items RPI exc MIPS (RPIX)	Annual rate +2.2%, unchanged from last month Last higher in October 2014 (+2.4%) Last lower in August 2016 (+1.9%)
All items RPI exc MIPS and indirect taxes (RPIY)	Annual rate +2.1%, unchanged from last month Last higher in November 2014 (+2.2%) Last lower in August 2016 (+1.9%)
Alcoholic drinks	Annual rate +1.3%, up from +0.6% last month Also +1.3% in February 2015 Last higher in December 2014 (+2.0%)
Fuel and light	Annual rate -1.1%, up from -1.8% last month Highest since November 2014 (+4.0%)
Clothing and footwear	Annual rate +5.4%, down from +7.1% last month Lowest since July 2010 (+4.3%)
Personal goods and services	Annual rate +1.6%, up from +1.4% last month Highest since August 2014 (+1.7%)
Motoring expenditure	Annual rate +3.8%, up from +3.4% last month Highest since January 2012 (+3.9%)
Leisure services	Annual rate +1.7%, down from +2.0% last month Also +1.7% in May 2014 and April 2014 Last lower in March 2014 (+1.6%)
All goods	Annual rate +0.9%, up from +0.6% last month Highest since October 2014 (+1.1%)
All services	Annual rate +2.6%, unchanged from last month Last higher in August 2016 (+2.9%) Last lower in May 2016 (+2.4%)
Petrol and oil	Annual rate +3.2%, up from +1.5% last month Highest since April 2012 (+6.1%)

RPI DETAILED BRIEFING

In accordance with the Statistics and Registration Service Act 2007, the Retail Prices Index and its derivatives have been assessed against the Code of Practice for Official Statistics and found not to meet the required standard for designation as National Statistics. A consultation was carried out in March 2013 on whether to maintain this detailed RPI briefing and, based on views received, it was decided to continue with its publication.

- Weights are specified as parts per 1000 in the RPI.

FOOD	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to RPI annual rate change
FOOD	109	102	-0.5	-0.3	0.02

- Small upward effect on the all items 12-month rate change.
- Due to **seasonal food** and **non-seasonal food**.

Seasonal Food	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to RPI annual rate change
SEASONAL FOOD	18	18	0.4	0.8	0.01
Home killed lamb	1	1	-7.1	0.6	0.01
Fresh fish	2	2	-1.7	4.7	0.01
Eggs	1	1	0.6	-1.7	-
Unprocessed potatoes	2	1	-	-2.7	-
Other fresh vegetables	6	6	-0.4	-0.8	-
Fresh fruit	6	7	3.5	1.9	-0.01

- Small upward effect on the all items 12-month rate change.
- Due to **home killed lamb** and **fresh fish**, where prices overall rose this year but fell a year ago, with the main upward contributions coming from lamb joints and frozen prawns.
- Partially offset by a small downward contribution coming from **fresh fruit**, where prices overall rose this year by less than a year ago.

Non-Seasonal Food	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to RPI annual rate change
NON-SEASONAL FOOD	91	84	-0.6	-0.6	0.01
Bread	4	4	-0.1	-0.1	-
Cereals	4	4	0.3	1.0	-
Biscuits and cakes	7	6	1.4	-	-0.01
Beef	4	4	-	1.9	0.01
Imported lamb	1	1	-2.8	1.7	-
Pork	1	1	0.5	-	-
Bacon	2	1	-0.6	-3.1	-
Poultry	4	4	-1.5	2.3	0.01
Other meat	7	6	-1.7	-1.6	-
Processed fish	2	2	1.7	1.5	-
Butter	1	1	-6.8	3.4	0.01
Oils and fats	1	1	-3.9	-3.2	-
Cheese	4	3	-1.5	2.1	0.01
Milk, fresh	3	3	-0.3	0.2	-
Milk products	4	4	0.8	-2.0	-0.01
Tea	1	1	-	-1.4	-
Soft drinks	10	9	-	-3.6	-0.03
Sugar and preserves	1	1	0.7	-0.7	-
Sweets and chocolates	11	11	-0.1	1.0	0.01
Potato products	3	2	-1.4	-1.4	-
Processed vegetables	2	2	-1.6	-2.9	-
Processed fruit	2	1	-0.5	-	-
Other foods	11	10	-2.5	-2.3	-
Coffee and other hot drinks	1	2	-0.8	-1.3	-

- Small upward effect on the all items 12-month rate change.
- Due to:
 - **Poultry, cheese, butter, and sweets and chocolates**, where prices overall rose this year but fell a year ago, with the main upward contributions coming from boneless chicken breasts, tubs of spread cheese, cartons/boxes of chocolates and bags of chocolate sweets. Partially offset by a small downward contribution coming from bags of non-chocolate sweets: and
 - **Beef**, where prices overall rose this year but were little changed a year ago.
- Partially offset by:
 - **Soft drinks**, where prices overall fell this year but were little changed a year ago, with the main downward contributions coming from fruit squash and bottles of cola flavoured drinks;
 - **Biscuits and cakes**, where prices overall were little changed this year but rose a year ago, with the main downward contribution coming from packs of individual cakes; and
 - **Milk products**, where prices overall fell this year but rose a year ago, particularly for yoghurt/fromage frais.

CATERING	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to RPI annual rate change
CATERING	47	47	0.2	0.2	-
Restaurant meals	28	28	0.2	0.2	-
Canteen meals	3	3	0.1	0.1	-
Take-away meals and snacks	16	16	0.1	0.2	-

- Negligible overall effect on the all items 12-month rate change.

ALCOHOLIC DRINKS	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to RPI annual rate change
ALCOHOLIC DRINKS	56	57	-0.7	-	0.04
Beer on sales	19	19	0.1	0.2	-
Beer off sales	5	5	-2.1	-0.7	0.01
Wines and spirits on sales	18	19	0.1	0.5	0.01
Wines and spirits off sales	14	14	-2.3	-0.7	0.02

- Large upward effect on the all items 12-month rate change.
- Due to:
 - **Wines and spirits off sales**; and **beer off sales**, where prices overall fell this year by less than a year ago, with the main upward contributions coming from New World white wine, vodka and larger packs of bottled lager; and
 - **Wines and spirits on sales**; where prices overall rose this year by more than a year ago.

TOBACCO	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to RPI annual rate change
TOBACCO	27	25	0.9	0.2	-0.02
Cigarettes	23	21	1.0	0.1	-0.02
Other tobacco products	4	4	0.8	0.3	-

- Small downward effect on the all items 12-month rate change.
- Due to **cigarettes**, where prices overall rose this year by less than a year ago.

HOUSING	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to RPI annual rate change
HOUSING	263	266	0.3	-0.2	-0.13
Rent	84	83	0.3	0.1	-0.02
Mortgage interest payments	29	28	-0.2	-2.8	-0.07
Council tax and rates	40	40	-	-	-
Water and other charges	14	13	-	-	-
Repairs and maintenance charges	9	9	0.3	0.2	-
DIY materials	8	7	-	-1.1	-0.01
Dwelling insurance and ground rent	6	6	0.1	0.7	-
House depreciation	73	80	0.6	0.1	-0.04

- Largest downward effect on the all items 12-month rate change.
- Due to:
 - **Mortgage interest payments**, where average charges fell this year by more than a year ago;
 - **House depreciation**, with the smoothed house price index used to calculate this component rising this year by less than a year ago; and, to a lesser extent
 - **Rent**, where charges rose this year by less than a year ago, with the main downward contribution coming from Registered Social Landlord (RSL) rents; and
 - **DIY materials**, where prices overall fell this year but were little changed a year ago.

FUEL AND LIGHT	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to RPI annual rate change
FUEL AND LIGHT	45	41	-	0.8	0.03
Coal and solid fuels	1	1	1.3	1.8	-
Electricity	21	20	-	-	-
Gas	21	18	-	-	-
Oil and other fuels	2	2	-	12.1	0.03

- Small upward effect on the all items 12-month rate change.
- Due to **oil and other fuels**, where kerosene prices rose this year but were little changed a year ago.

HOUSEHOLD GOODS	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to RPI annual rate change
HOUSEHOLD GOODS	59	62	-1.3	0.2	0.09
Furniture	22	25	-4.0	-1.2	0.06
Furnishings	9	8	-0.5	0.8	0.01
Electrical appliances	5	7	1.6	2.4	0.01
Other household equipment	4	4	1.1	0.2	-
Household consumables	12	11	-	1.5	0.02
Pet care	7	7	1.2	0.5	-

- Largest upward effect on the all items 12-month rate change.
- Due to:
 - **Furniture**, where prices overall fell this year by less than a year ago, with the main upward contributions coming from leather settees, wardrobes, chest of drawers and non-leather suites; and, to a lesser extent
 - **Household consumables**, where prices overall rose this year but were little changed a year ago, with the main upward contributions coming from cream/liquid household cleaner and bleach. Partially offset by a small downward contribution coming from toilet rolls;
 - **Furnishings**, where prices overall rose this year but fell a year ago; and
 - **Electrical appliances**, where prices overall rose this year by more than a year ago, with the main upward contributions coming from vacuum cleaners and irons. Partially offset by a small downward contribution coming from electric kettles.

HOUSEHOLD SERVICES	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to RPI annual rate change
HOUSEHOLD SERVICES	65	67	0.7	0.4	-0.02
Domestic services	13	14	0.1	0.2	-
Fees and subscriptions	26	27	1.3	0.8	-0.01
Postage	1	1	-	-	-
Telephone charges	25	25	0.5	-	-0.01

- Small downward effect on the all items 12-month rate change.
- Due to:
 - **Fees and subscriptions**, where average charges rose this year by less than a year ago, particularly for university tuition fees. The downward contribution came principally from UK and EU student tuition fees, where the impact from the rise in the cap for tuition fees (first introduced for new students in England in 2012) was smaller this year than in 2015. This was because nearly all students are already paying the higher rate

of fees whereas last year the fees for fourth year courses rose to the higher rates. In addition, there were more modest price increases for part-time and postgraduate fees compared with last year. Partially offset by a small upward contribution coming from estate agent fees, where charges rose this year but fell a year ago; and

- **Telephone charges**, where prices overall were little changed this year but rose a year ago, with the main downward contributions coming from bundled telecommunication services. Partially offset by a small upward contribution coming from mobile telephone applications, where average charges fell this year by less than a year ago.

CLOTHING AND FOOTWEAR	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to RPI annual rate change
CLOTHING AND FOOTWEAR	42	41	1.9	0.3	-0.07
Men's outerwear	8	9	2.4	0.6	-0.01
Women's outerwear	16	15	2.0	-0.4	-0.04
Children's outerwear	5	4	3.9	2.1	-0.01
Other clothing	5	5	1.5	-	-0.01
Footwear	8	8	0.1	0.2	-

- Large downward effect on the all items 12-month rate change.
- Due to:
 - **Women's outerwear**, where prices overall fell this year but rose a year ago, with the main downward contributions coming from women's skirts, casual jackets and formal trousers; and, to a lesser extent
 - **Men's outerwear** and **children's outerwear**, where prices overall rose this year by less than a year ago, with the main downward contribution coming from men's casual jackets/coats; and
 - **Other clothing**, where prices were little changed this year but rose a year ago.

PERSONAL GOODS AND SERVICES	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to RPI annual rate change
PERSONAL GOODS AND SERVICES	41	42	-0.5	-0.3	0.01
Personal articles	10	12	-1.1	-1.1	-
Chemists' goods	17	15	0.1	0.9	0.01
Personal services	14	15	-0.8	-0.8	-

- Small upward effect on the all items 12-month rate change.
- Due to **chemists' goods**, where prices overall rose this year by more than a year ago, with the main upward contribution coming from baby wipes.

MOTORING EXPENDITURE	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to RPI annual rate change
MOTORING EXPENDITURE	115	117	-	0.4	0.05
Purchase of motor vehicles	42	45	-	0.1	0.01
Maintenance of motor vehicles	16	16	0.1	0.2	-
Petrol and oil	35	33	-0.8	0.9	0.06
Vehicle tax and insurance	22	23	1.3	0.3	-0.02

- Large upward effect on the all items 12-month rate change.
- Due to:
 - **Petrol and oil**, where prices overall rose this year but fell a year ago. The price of petrol, as recorded for the RPI, rose by 1.0 pence per litre between September and October 2016, to stand at 112.3 pence per litre, compared with a fall of 1.6 pence per litre last year to stand at 109.0 pence per litre. Diesel prices rose by 1.0 pence per litre, to stand at 114.4 pence per litre in October 2016, compared with a rise of 0.9 pence per litre last year to stand at 110.8 pence per litre; and, to a lesser extent
 - **Purchase of motor vehicles**, where average prices rose this year but were little changed a year ago, with the main upward contribution coming from new cars.
- Partially offset by:
 - **Tax and insurance**, where average premiums for car insurance rose this year by less than a year ago.

FARES AND OTHER TRAVEL COSTS	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to RPI annual rate change
FARES AND OTHER TRAVEL COSTS	25	26	-4.7	-3.1	0.04
Rail fares	7	7	-0.2	-0.4	-
Bus and coach fares	3	3	-1.1	0.5	0.01
Other travel costs	15	16	-7.1	-4.7	0.04

- Large upward effect on the all items 12-month rate change.
- Due to:
 - **Other travel costs**, where average charges fell this year by less than a year ago, particularly for air fares; and, to a lesser extent
 - **Bus and coach fares**, where average prices rose this year but fell a year ago, particularly for coach fares.

LEISURE GOODS	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to RPI annual rate change
LEISURE GOODS	28	29	1.0	0.5	-0.02
Audio-visual equipment	7	7	1.4	1.5	-
CDs and tapes	2	2	2.9	-3.7	-0.01
Toys, photographic and sports goods	8	9	2.0	0.2	-0.01
Books and newspapers	6	6	1.3	1.8	-
Gardening products	5	5	-1.3	0.3	0.01

- Small downward effect on the all items 12-month rate change.
- Due to:
 - **CDs and tapes**, where prices overall fell this year but rose a year ago, particularly for DVDs purchased via the internet; and
 - **Toys, photographic and sports goods**, where prices overall rose this year by less than a year ago, with the main downward contributions coming from computer games purchased via the internet and computer games consoles. Partially offset by a small upward contribution coming from shop bought computer games, where prices overall rose this year by more than a year ago.
- Partially offset by a small upward contribution coming from **gardening products**, where prices rose this year but fell a year ago, particularly for potted shrubs.

LEISURE SERVICES	Weight 2015	Weight 2016	1 month % change Oct 2015	1 month % change Oct 2016	Contribution to RPI annual rate change
LEISURE SERVICES	78	78	0.2	-0.1	-0.02
TV licence and rentals	12	12	-	-	-
Entertainment and other recreation	15	16	0.3	0.7	0.01
Foreign holidays	41	40	0.3	-0.3	-0.02
UK holidays	10	10	0.1	-0.7	-0.01

- Small downward effect on the all items 12-month rate change.
- Due to **foreign holidays** and **UK holidays**, where prices overall fell this year but rose a year ago, with the main downward contributions coming from late booked, self catering and hotel foreign holidays and UK hotel overnight stays. Partially offset by a small upward contribution coming from foreign holiday insurance, where charges rose this year but fell a year ago.
- Partially offset by **entertainment and other recreation**, where prices overall rose this year by more than a year ago, with the main upward contribution coming from theatre admissions.

RECONCILIATION OF CPI AND RPI

(Table 5 of the Consumer Price Inflation Dataset)

This table identifies the main factors contributing to the differences between the unrounded inflation rates for the CPI and the RPI. These differences are broken down into: mortgage interest payments, other housing components excluded from the CPI, other differences in the coverage of goods and services, and the formula effect. The final column titled 'other differences including weights' is derived as a residual.

The difference between the CPI and RPI unrounded annual rates in October 2016 was -1.13 percentage points, widening from -1.08 percentage points in September 2016.

The main factor contributing to the widening was:

- **Other differences including weights**, which increased the RPI 12-month rate relative to the CPI 12-month rate by 0.21 percentage points between September and October 2016. The effect came mainly from games, toys and hobbies and equipment for sport and open air recreation; clothing and footwear; food and non-alcoholic beverages; and education. This was partially offset by fuels and lubricants.

The offsetting factors were:

- **Mortgage interest payments**, which decreased the RPI 12-month rate by 0.07 percentage points between September and October 2016 but are excluded from the CPI.
- **The formula effect**, which decreased the RPI 12-month rate relative to the CPI 12-month rate by 0.06 percentage points between September and October 2016. The effect came mainly from recreation and culture.
- **Other housing components excluded from the CPI**, which decreased the RPI 12-month rate relative to the CPI 12-month rate by 0.03 percentage points between September and October 2016. The effect came mainly from house depreciation.

RPI MISCELLANEOUS DATA

Selected Average Prices

Description		August 2016	September 2016	October 2016
Petrol per litre	Diesel	£1.11	£1.13	£1.14
	Petrol	£1.09	£1.11	£1.12
Alcohol pub prices	Draught bitter (pint)	£3.00	£3.01	£3.01
	Draught lager (pint)	£3.49	£3.50	£3.51
	Whisky (per nip)	£2.70	£2.70	£2.72
Cigarettes	Per 20 king size	£9.39	£9.43	£9.43

Average prices are as recorded for the RPI.

Changes in Mortgage Interest Rates

This table gives an estimate of the contribution that changes in the average mortgage interest rate (MI) make to the 1-month percentage change in the RPI.

Month	1-month % change in the RPI	Approx. change in average MI rate	Approx. contribution to the 1-month % change in the RPI
October 2015	0.0	Down -0.02% points	-0.02% points
November 2015	+0.1	Down -0.01% points	-0.01% points
December 2015	+0.3	Down -0.02% points	-0.02% points
January 2016	-0.7	Down -0.01% points	-0.01% points
February 2016	+0.5	Down -0.01% points	-0.01% points
March 2016	+0.4	Down -0.01% points	-0.01% points
April 2016	+0.1	Down -0.02% points	-0.02% points
May 2016	+0.3	Down -0.01% points	-0.01% points
June 2016	+0.4	Down -0.02% points	-0.02% points
July 2016	+0.1	Down -0.01% points	-0.01% points
August 2016	+0.4	Down -0.12% points	-0.11% points
September 2016	+0.2	Up +0.06% points	+0.05% points
October 2016	0.0	Down -0.09% points	-0.08% points

NB: A one percentage point change in the average mortgage interest rate contributes approx. 0.9 percentage points to the 1-month percentage change in the RPI.

OUTLOOK

The outlook is a summary of seasonal trends, selected news cuttings and other sources of information. It gives some indication of expected changes to the annual rate of the CPI and RPI in the next few months.

FOOD

Seasonal Food

- With the exception of 2013, seasonal food prices in the CPI have risen in November in recent years.

Monthly % change for CPI seasonal food index			
Year	September	October	November
2010	-0.7	0.4	3.0
2011	0.8	-1.6	1.8
2012	-0.1	0.9	2.5
2013	1.1	0.1	-0.1
2014	-0.5	1.3	0.6
2015	0.3	0.3	0.8
2016	1.2	-0.1	

- Seasonal food prices in the RPI tend to show a similar movement.

CLOTHING AND FOOTWEAR

- Prices for clothing and footwear historically have tended to rise in November following mid-season sales in October. However there have been atypical price movements in this sector during 2015.

Monthly % change for CPI clothing and footwear index			
Year	September	October	November
2010	6.4	-0.7	2.0
2011	4.4	0.8	1.2
2012	4.7	1.2	0.6
2013	4.2	1.0	0.7
2014	4.0	0.6	0.7
2015	2.8	2.0	-0.1
2016	5.2	0.3	

- The clothing and footwear group in the RPI exhibits a similar seasonal pattern.

FURNITURE, HOUSEHOLD EQUIPMENT AND MAINTENANCE

- Prices have shown a mixed pattern of rises and falls in November of previous years.

Monthly % change for CPI furniture, household equipment and maintenance index			
Year	September	October	November
2010	1.7	-1.0	1.6
2011	1.2	-0.6	1.0
2012	0.5	-0.6	-0.1
2013	0.2	-0.4	-0.1
2014	0.6	-1.1	0.1
2015	0.7	-1.0	-0.2
2016	0.4	0.5	

- The household goods group in the RPI exhibits a similar seasonal pattern.

TRANSPORT

Fuels and Lubricants

- Oil prices dipped on Friday as the market refocused on a persistent fuel supply overhang that is not expected to abate unless OPEC and other producers make a significant cut to their output. International Brent crude oil futures LCOc1 were trading at \$45.77 per barrel at 0743 GMT (2:43 a.m. ET), down 7 cents from their last close. (uk.reuters.com 11 November 2016)
- When considering the price of petrol between October and November 2016, it may be useful to note that the average price of petrol fell by 1.5 pence per litre between October and November 2015, standing at 107.2 pence per litre as measured in the CPI.
- A 1 pence change on average in the cost of a litre of motor fuel contributes approximately 0.03 percentage points to the 1-month change in the CPI.

Passenger Transport by Air

- Historically air fares tend to fall in November.

Monthly % change for CPI air fares index			
Year	September	October	November
2010	-27.8	2.7	-6.4
2011	-21.2	-6.0	-7.5
2012	-25.2	-3.5	-8.3
2013	-18.8	-11.2	-8.1
2014	-21.7	-6.0	-12.3
2015	-20.4	-12.7	-13.0
2016	-24.2	-7.4	

- The air fares index used in the RPI is the same as that used in the CPI, and is included in the

other travel costs section.

HOUSING (RPI)

Mortgage interest payments (MIPs)

- The Bank of England Bank Rate remained unchanged at 0.25% on Thursday 3 November 2016. The next announcement and minutes from the Bank of England's Monetary Policy Committee are scheduled to be published on 2 February 2017.
- The change in average mortgage interest rates recorded in the RPI was -0.01% between October and November 2015. The Bank of England Bank Rate remained unchanged at 0.5% in October 2015.
- A one percentage point change in the average mortgage interest rate contributes approximately 0.9 percentage points to the 1-month percentage change in the RPI.

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Media contact:

Tel: Luke Croydon +44 (0) 845 6041858

Out of hours media line +44 (0) 7867 906553

Email: media.relations@ons.gsi.gov.uk**Statistical contact:**

Tel: James Tucker +44 (0) 1633 456589

Email: cpi@ons.gsi.gov.uk**Website:** www.ons.gov.uk**Consumer Price Inflation recorded message** (available after 9.45am on release day):

Tel: +44 (0) 800 0113703

Consumer Price Inflation Enquiries:

Tel: +44 (0) 1633 456900